

In the Claims :

1(Original). A method for energizing an electric energy storage device to a high electric potential with electric energy supplied by an electric power source, comprising the steps of: (a) isolating in electrical terms said de-energized electric energy storage device from said electric power source, and (b) energizing a capacitive device with a predetermined value of capacitance with electric energy supplied by said electric power source until said capacitor is energized to a voltage equal to the voltage of the electric power source to stop electric current from flowing, and (c) isolating energized said capacitive device from said electric power source, and (d) allowing energized said capacitive device to de-energize through, and supply electric energy to, said electric energy storage device, thus describing an energizing cycle, and (e) repeating said energizing cycle until said electric energy storage device is fully energized with electric energy supplied by said electric power source which is temporarily stored during each said energizing cycle by said capacitive device, whereby electric energy is supplied safely, effectively, and efficiently by said electric power source to energize said electric energy storage device with said capacitive device acting during each said energizing cycle to prevent excessive electric current from flowing at any time.

2(Original). A method for de-energizing an electric energy storage device from a high electric potential, comprising the steps of: (a) partially de-energizing said electric energy storage device to a capacitive device with a predetermined value of capacitance through said electrical load device with electric energy supplied by said electric energy storage device until said capacitive device is energized to a voltage equal to the voltage of the said electric energy storage device to stop electric current from flowing, and (b) isolating energized said capacitive device from said electric energy storage device, and (c) completely de-energizing said capacitive device in the opposite direction in electrical terms through said electrical load device, thus describing a de-energizing cycle, and (d) repeating said de-energizing cycle until said electric energy storage device is completely de-energized or until the need to supply electric energy to said electrical load device with electric energy temporarily stored by said capacitive device during each said de-energizing cycle ceases, whereby electric energy is safely, effectively, and

efficiently supplied by said electric energy storage device to said electrical load device with said capacitive device acting during each said de-energizing cycle to prevent excessive electric current from flowing at any time.

Claims 3-9(Cancelled)

10(New). A circuit for energizing an electric energy storage device, comprising:

an electrical energy storage device;
a capacitor electrically in parallel with the electrical energy storage device;
a first switch connecting the electrically energy device to the capacitor;
an electrical power source electrically in parallel with the capacitor; and
a second switch in series with the electrical power source.

11(New). The circuit of claim 10, wherein the first switch and the second switch are manually operated.

12(New). The circuit of claim 10, wherein the first switch and the second switch are mechanical switches that are activated by an electromagnet.

13(New). The circuit of claim 10, wherein the first switch and the second switch are semiconductor devices and are electronically controlled.

14(New). The circuit of claim 10, wherein the first switch and the second switch are a single semiconductor device.

15(New). The circuit of claim 10, wherein the first switch and the second switch are electron tubes.

16(New). The circuit of claim 10, wherein the electrical energy storage device is a high voltage electrical energy storage device with a high energy density and a high specific energy.